



National PrEP cascade for Australian gay and bisexual men and analysis of factors influencing uptake

Results from the Gay Community Periodic Surveys, 2014-18

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Acknowledgments/disclosure

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Background

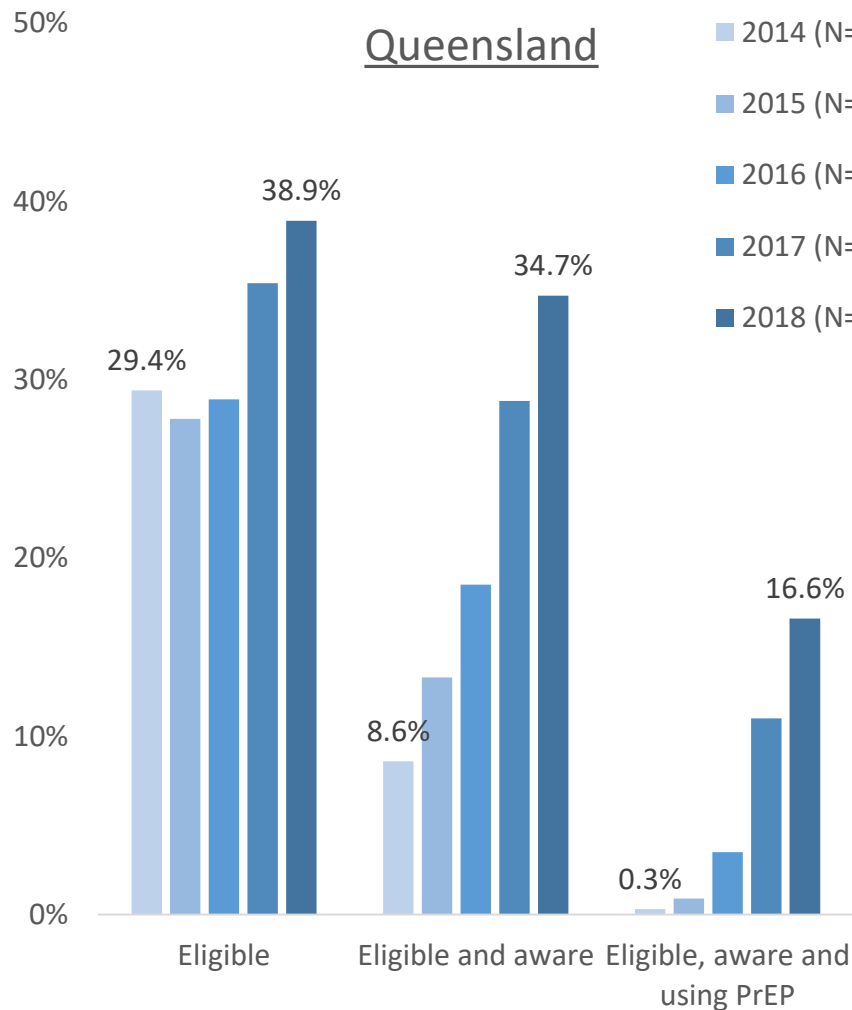
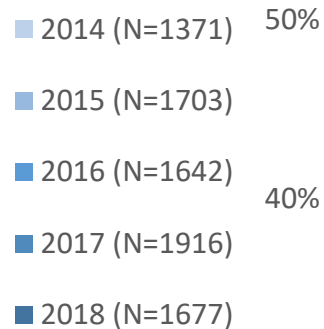
- Cascades have been proposed as way to monitor and identify gaps in PrEP uptake
- We used national data from the Gay Community Periodic Surveys (2014-18) to create a three-step cascade:
 1. Eligibility for PrEP among gay/bi men
 2. Awareness of PrEP among eligible gay/bi men
 3. PrEP use among eligible and aware men
- Face-to-face recruitment at gay venues and events led by community organisations, online recruitment via Facebook
- Seven states/territories included, recruitment conducted every 1-2 years
- N=39,670 non-HIV-positive participants

PrEP eligibility

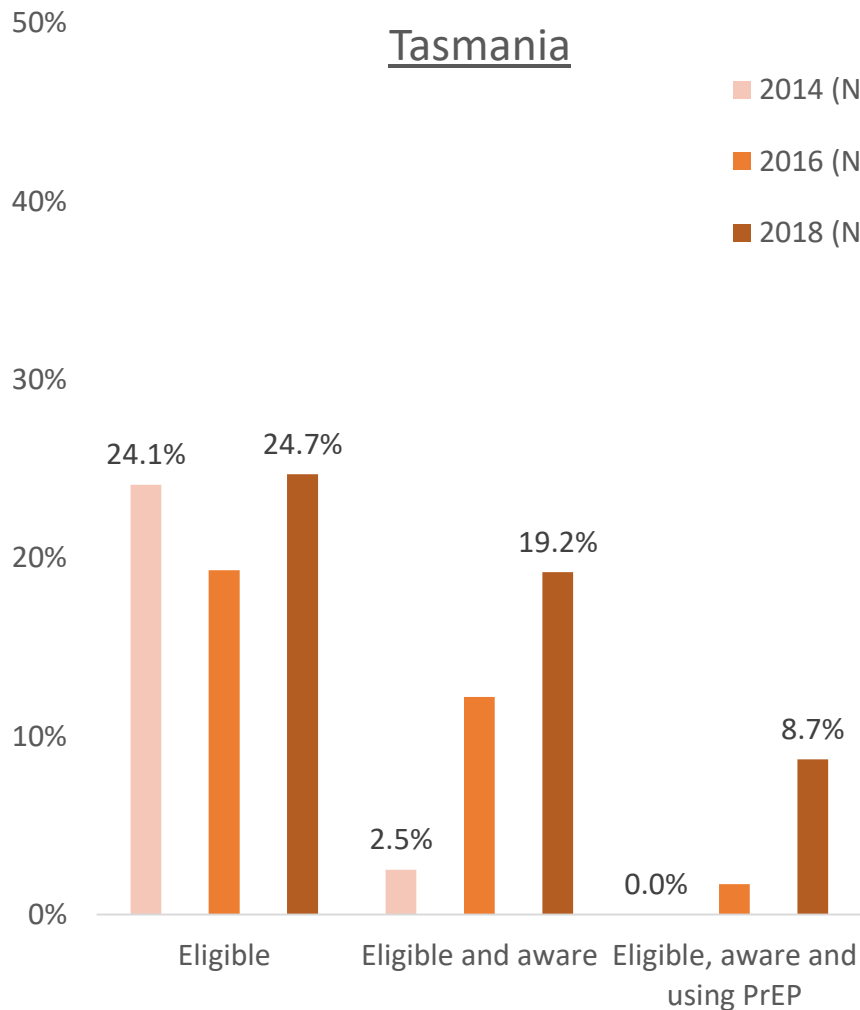
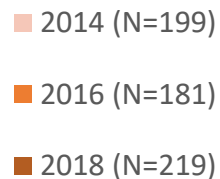
- PrEP eligibility adapted from previous ASHM prescribing guidelines (Wright et al, 2017)
- Operationalised as:
 - Any condomless anal intercourse (CAI) with HIV-positive regular male partner not on treatment or with detectable viral load in last 6m
 - Any receptive CAI with casual male partners (CAIC) in last 6m
 - Any crystal meth use last 6m
 - Any STI diagnosis in last 12m
- Eligibility most commonly due to receptive CAIC ($\leq 25\%$) or STIs ($\leq 21\%$)
- Both CAIC and STIs have increased over time

State/territory variability

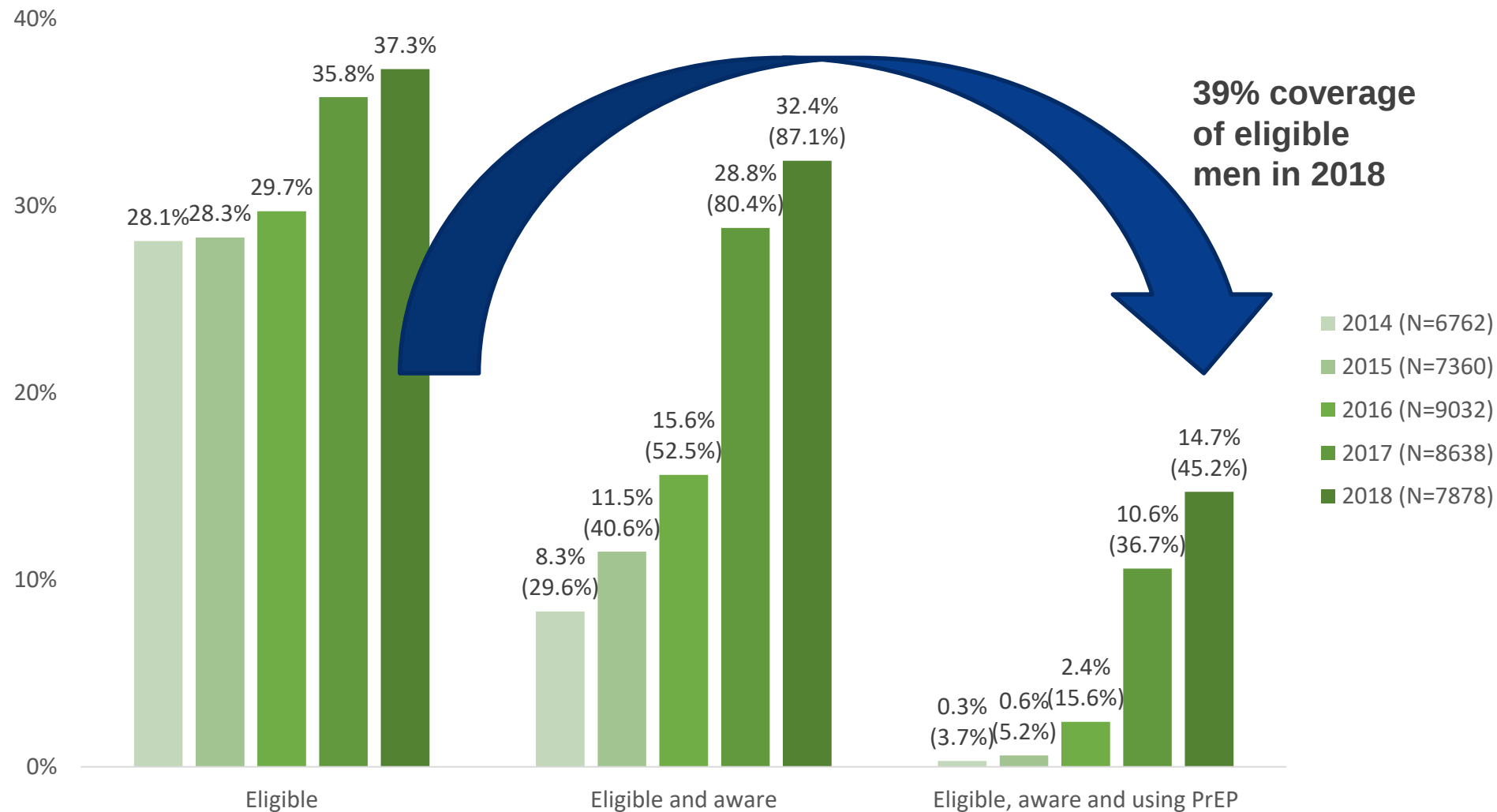
Queensland



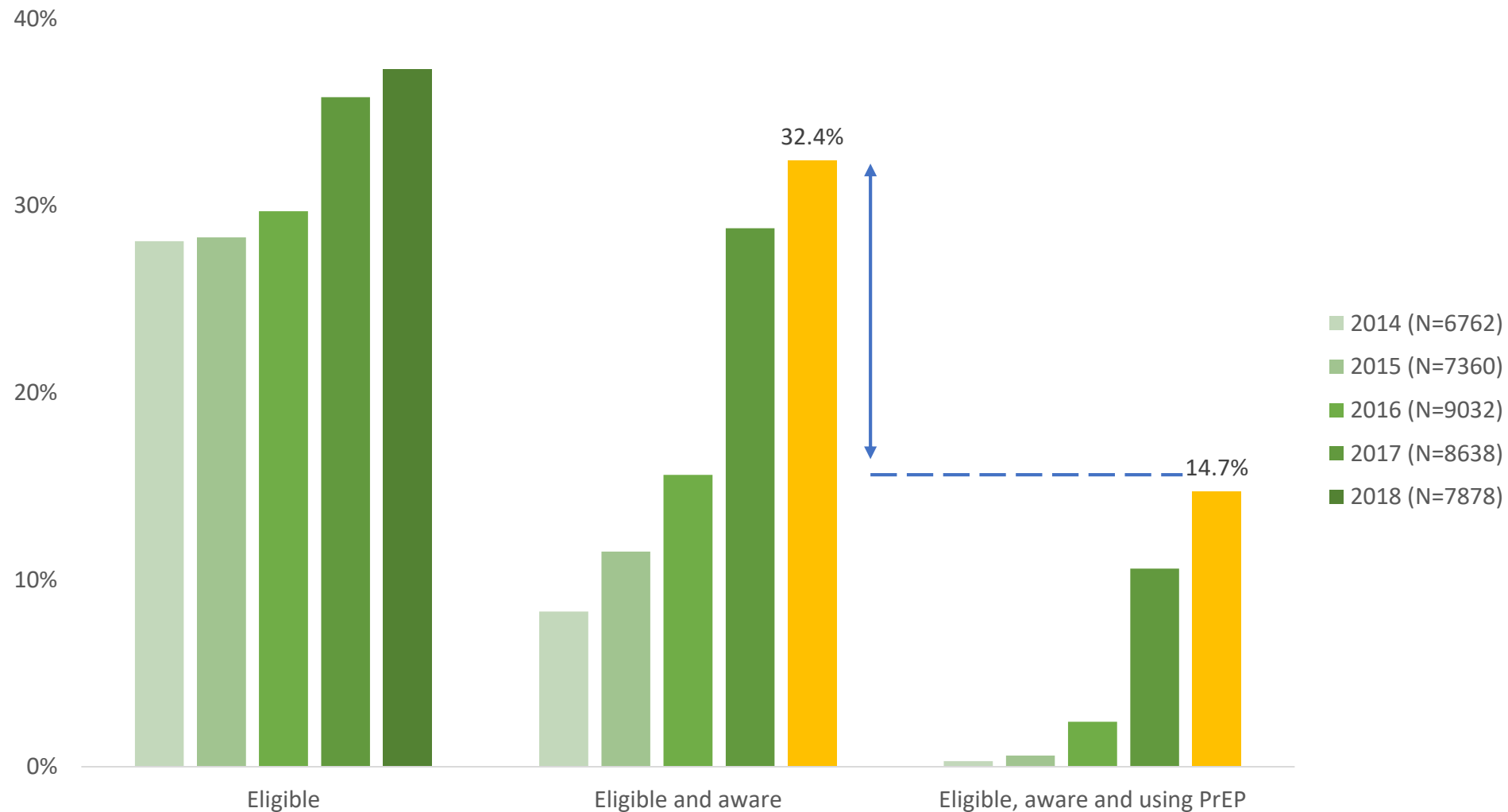
Tasmania



National PrEP cascade, GCPS



'Break point' or gap analysis



'Break point' or gap analysis

	Eligible, aware, <u>not</u> using PrEP N=1579	Eligible, aware, using PrEP N=1209	Adjusted odds ratio
ACT	4.3%	3.0%	0.44**
QLD	19.3%	23.0%	1.38*
WA	7.0%	1.5%	0.33**
Anglo-Australian	65.7%	71.1%	1.31*
University degree	50.0%	61.8%	1.36**
Full-time job	65.0%	74.0%	1.35*

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

‘Break point’ or gap analysis

	Eligible, aware, <u>not</u> using PrEP N=1579	Eligible, aware, using PrEP N=1209	Adjusted odds ratio
Condomless sex regular partners	49.9%	64.4%	1.40**
Condomless sex casual partners	65.5%	87.4%	2.29***
HIV test last 6m	71.5%	97.4%	2.92***
Any STI last 12m	50.0%	68.4%	1.51**
Crystal use last 6m	20.7%	17.0%	0.66*

Summary

- PrEP cascades can be constructed from routine behavioural surveillance, inc. for individual states/territories
- National GCPS data from 2014-18 show:
 - Wide state/territory variability
 - National increases in eligibility, awareness and use
 - Initial gap (2014-16) in PrEP awareness by eligible men
 - More recent gap (2017-18) in uptake by eligible/aware men
- PrEP coverage reached 39% of eligible men in 2018
- Gap analysis shows lower levels of PrEP uptake in:
 - Less populous states/territories
 - Non-Anglo gay/bi men
 - Less educated men
 - Those without full-time employment
- Eligible non-users report high levels of condomless sex, STIs & crystal use